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TWO ADDITIONS TO THE LIST OF NEW JERSEY CONE-HEADED GRASSHOPPERS.

BY WILLIAM T. DAVIS,

NEW BRIGHTON, STATEN ISLAND, N. Y.

In the last edition of the Insects of New Jersey ten species of Conocephaloides are enumerated. The names triops (dissimilis), retusus and atlanticus, as there applied, probably refer to forms of one species, and nebrascensis was identified as such about the time lyristes, which it resembles, was described from Florida. This leaves seven species, with possibly one form of triops or retusus worthy of being separated as a variety under one of the above names. In triops the length of the ovipositor varies as much as 5 mm., but as this same thing occurs in undoubted specimens of robustus, the ovipositor must not be taken as an infallible guide.

In the Proceedings of the Academy of Natural Sciences of Philadelphia, June, 1907, p. 305, Conocephalus melanorhinus is described by Rehn and Hebard from a single female from Cedar Keys, Levy County, Florida. While at Tuckerton in the southern part of New Jersey, September 1, 1907, the writer collected a male melanorhinus on the edge of the meadows. So far these are the only two specimens known. The New Jersey example has been compared with the type and there is no doubt but what it is the same species. The fastigium

is of the same shape and is blackened beneath as in the Florida specimen. Measurements of the male are as follows:

Length of body	 	28	mm.
Length of fastigium beyond eyes	 	2.5	mm.
Length of pronotum			
Greatest caudal width of disk of pronotum			
Length of tegmen	 	33	mm.
Length of caudal femur			

When males from the south are collected they will probably be found to average somewhat larger.

While at Erma, Cape May Co., N. J., in August, 1910, a few males of what appeared at the time to be Conocephalus robustus were collected in the meadow bordering Bradley's Run. When these were pinned in line and compared with undoubted robustus from Fire Island, N. Y., Staten Island, etc., it was seen that while they greatly resembled that species, the fastigium was more blunt in the specimens from Erma. In August, 1912, additional material was collected and the song listened to with care. While it consisted of the same continuous whirr as in *robustus*, it was not nearly so ear-splitting. There were no robustus to be heard about Erma or Cold Spring, but the following evening the colony at Chatsworth, N. I., was visited, so a near comparison in point of time was made. In the collection of the author there are two additional specimens like those from Erma: one collected at Virginia Beach, Va., July 20 (Geo. P. Engelhardt), and one from Herndon, Va., August, 1911 (H. G. Barber). The Erma, N. J., and Virginia insects resemble Conocephalus crepitans Scudder more nearly than any other described species, but seem to average a little less robust than examples of that insect from Kansas and Nebraska. The type of crepitans came from Texas. The Atlantic States or eastern crebitans appears to bear about the same relation to western crebitans as does lyristes to nebrascensis and ensiger to attenuatus. These comparisons may be more superficial than real, as I am unacquainted with the habits and songs of nebrascensis and attenuatus. There is no doubt, however, that we have in Virginia and New Jersey an insect that has been heretofore overlooked, and which for the time being may be considered as crepitans.